● PRINTER RUSH ●
(PTO ASSISTANCE)

Application :	09688572	**Examiner :**	LE	**GAU :**	1641
From:	NPB	**Location:**	(IDC) FMF FDC	**Date:**	05/24/05

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☐ 1449		☐ Continuing Data
☐ IDS		☐ Foreign Priority
☐ CLM		☐ Document Legibility
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☑ DRW	10/12/00	
☐ OATH		
☐ 312		
☑ SPEC	10/17/00	

[RUSH] **MESSAGE:**

(1) The last 2 lines on original page 26 are illegible. please provide new page 26.

(2) There are two (2) FIGS. 3C and 3D on drawing sheets dated 10/17/00 and they are different.

Please advise/correct. Thank you

[XRUSH] **RESPONSE:** (SEE ATTACHMENTS) 948 & 455 MAILED

INITIALS: JDC

NOTE: This form will be included as part of the official USPTO record, with the Response document coded as XRUSH.

REV 10/04

UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMES APPLICANT	ATTORNEY DOCKET NUMBER
09/688572	10/17/2000	SEUL, MICHAEL	464.1006 CON3

Examiner
DO, PENSEE

JULIE BOWKER
60 EAST 42ND STREET
SUITE 2918
NEW YORK NY 10165

Art Unit: 1641

Paper Number

Date Mailed:6/2/2005

Notice Regarding Drawings

Corrected drawings for the above-identified application, received in the USPTO on 10-17-00 are still not acceptable for the reason(s) identified on the attached PTO-948. Applicant is given one opportunity to correct the informalities within a two-month time period from the mailing date of this Notice. **THIS TIME PERIOD IS NOT EXTENDABLE UNDER EITHER 37 CFR 1.136(a) OR 1.136(b). Failure to take corrective action within the set period will result in abandonment of the application.**

ATTACHMENT: PTO-948 Notice of Draftsperson's Patent Review

RETURN CORRECTED DRAWINGS TO:
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Joshua D. Chase
Office of Patent Publication,
Publishing Division
703-305-0333 ext-138

Form PTO-948 (Rev. 06/03)
Application No. 9/688,572

U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

NOTICE OF DRAFTSPERSON'S PATENT DRAWING REVIEW

The drawing(s) filed (insert date) 10-17-00 are:

A. ____ approved by the Draftsperson under 37 CFR 1.84 or 1.152.

B. ✓ objected to by the Draftsperson under 37 CFR 1.84 or 1.152 for the reasons indicated below. Corrected drawings are required.

1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings: Black ink or Color (3 sets required).

___ Color drawings are not acceptable until petition is granted. Fig(s)_____

___ Pencil and non black ink not permitted. Fig(s)____

2. PHOTOGRAPHS. 37 CFR 1.84(b)

___ One (1) full-tone set is required. Fig(s)_____

___ Photographs may not be mounted. 37 CFR 1.84(e)

___ Photographs must meet paper size requirements of 37 CFR 1.84(f). Fig(s)_____

___ Poor quality (half-tone). Fig(s)_____

3. TYPE OF PAPER. 37 CFR 1.84(e)

___ Paper not flexible, strong, white, and durable. Fig(s)_____

___ Erasures, alterations, overwritings. interlineations, folds, copy machine marks not accepted. Fig(s)_____

4. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes:

21.0 cm by 29.7 cm (DIN size A4) or
21.6 cm by 27.9 cm (8 1/2x 11 inches)

___ All drawing sheets not the same size. Sheet(s)_____

___ Drawings sheets not an acceptable size. Fig(s)____

5. MARGINS. 37 CFR 1.84(g): Acceptable margins:

Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm

___ Margins not acceptable. Fig(s)_____

_____Top (T) _____ Left (L)

_____Right (R) _____ Bottom (B)

6. VIEWS. 37 CFR 1.84(h)

REMINDER: Specification may require revision to correspond to drawing changes, e.g., if Fig. 1 is changed to Fig. 1A, Fig 1B and Fig. 1C, etc., the specification, at the Brief Description of the Drawings, must likewise be changed.

___Views not labeled separately or properly. Fig(s)_____

7. SECTIONAL VIEWS. 37 CFR 1.84(h)(3)

____ Sectional designation should be noted with Arabic or Roman numbers. Fig(s)_____

8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i)

___ Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s)_____

9. SCALE. 37 CFR 1.84(k)

___ Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction. Fig(s)_____

10. CHARACTER OF LINES, NUMBERS, & LETTERS. 37 CFR 1.84(l)

___ Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (poor line quality). Fig(s)_____

11. SHADING. 37 CFR 1.84(m)

___ Solid black areas pale. Fig(s) _____

___ Solid black shading not permitted. Fig(s)_____

12. NUMBERS, LETTERS, & REFERENCE CHARACTERS. 37 CFR 1.84(p)

___ Numbers and reference characters not plain and legible. Fig(s)_____

___ Figure legends are poor. Fig(s)_____

___ Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1) Fig(s)_____

___ English alphabet not used. 37 CFR 1.84(p)(2) Fig(s)_____

___ Numbers, letters and reference characters must be at least 32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3). Fig(s)_____

13. LEAD LINES. 37 CFR 1.84(q)

___ Lead lines missing. Fig(s)_____

14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(t)

___ Sheets not numbered consecutively, and in Arabic numbers beginning with number 1. Sheet(s)_____

15. NUMBERING OF VIEWS. 37 CFR 1.84(u)

___ Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s)_____

16. DESIGN DRAWINGS. 37 CFR 1.152

___ Surface shading shown not appropriate. Fig(s)_____

___ Solid black surface shading is not permitted except when used to represent the color black as well as color contrast. Fig(s)_____

COMMENTS: THERE ARE TWO FIGURE 3C's AND TWO FIGURE 3D's, PLEASE CORRECT

Reviewer J. CHASE

Date 6-2-05

If you have questions, call (703) 305-8404.

Attachment to Paper No. _____

☆ U.S. GOVERNMENT PRINTING OFFICE: 2003-300-153

form the electrochemical cell, first making contact as shown in Fig. 6b, with individual liquid-filled holding areas on the substrate to which suspensions are confined. Overfilling ensures that contact is made with individual suspensions. The electric field is now turned on to induce array formation in the MxN holding areas and to ensure the preservation of the overall configuration of the MxN sets of beads while the gap is closed further (or filled with additional buffer) to eventually fuse individual droplets of suspension into a contiguous liquid phase as shown in Fig. 6c. In the fully assembled cell of Fig. 6c, while the droplets are fused together, the beads from each droplet are maintained in and isolated in their respective positions, reflecting the original MxN arrangement of wells. The present invention thus provides for the operations required in this implementation of a layout-preserving transfer procedure to load planar electrochemical cells.

Example V - Preparation of Heterogeneous Panels of Particles

The present invention provides a method to produce a heterogeneous panel of beads and potentially of biomolecules for presentation to analytes in an adjacent liquid. A heterogeneous panel contains particles or biomolecules which differ in the nature of the chemical or biochemical binding sites they offer to analytes in solution. In the event of binding, the analyte is identified by the coordinates of the bead, or cluster of beads, scoring positive. The present method relies on the functional elements of the invention to assemble a planar array of a multi-component mixture of beads which carry chemical labels in the form of tag molecules and may be so identified subsequent to performing the assay.

Diagnostic assays are frequently implemented in a planar format of a heterogeneous panel, composed of simple ligands, proteins and other biomolecular targets. For example, in a diagnostic test kit, a heterogeneous panel facilitates the rapid testing of a given analyte, added in solution, against an entire set of targets. Heterogeneous panels of proteins are of great current interest in connection with the emerging field of proteome research. The objective of this research is to identify, by scanning the panel with sensitive analytical techniques such as mass spectrometry, each protein in a multi-component mixture extracted from a cell and separated by two-dimensional gel electrophoresis. Ideally, the location of each spot uniquely corresponds to one particular protein. This analysis would permit, for example, the direct monitoring of gene expression levels in a cell during a particular point in its cycle or at a given stage during